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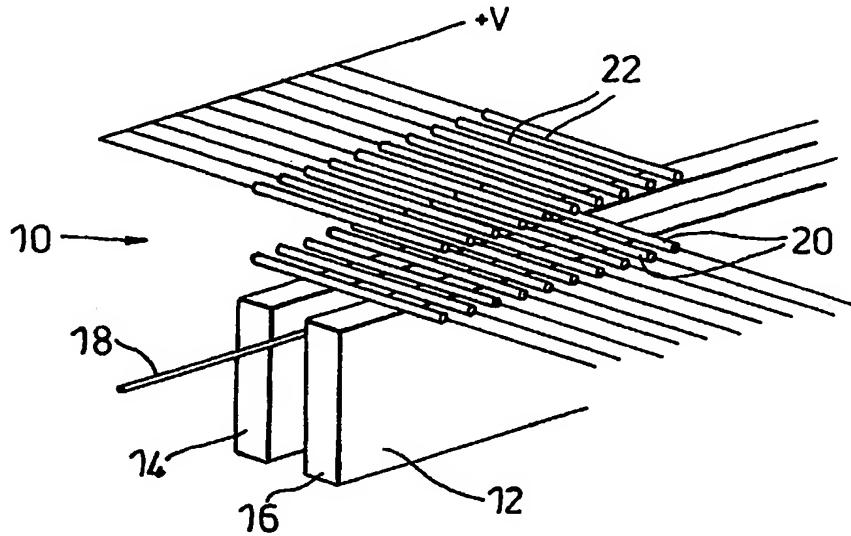
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(54) Title: X-RAY TUBE ELECTRON SOURCES



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(57) Abstract: An X-ray tube includes an emitter wire (18) enclosed in a suppressor (14, 16). An extraction grid comprises a number of parallel wires (22) extending perpendicular to the emitter wire, and a focusing grid comprises a number of wires (20) parallel to the grid wires (22) and spaced apart at equal spacing to the grid wires (20). The grid wires are connected by means of switches to a positive extracting potential or a negative inhibiting potential, and the switches are controlled so that at any one time a pair of adjacent grid wires (22) are connected together to form an extracting pair, which produce an electron beam. The position of the beam is moved by switching different pairs of grid wires to the extracting potential.



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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 633 907 A (GRAVELLE ET AL) 27 May 1997 (1997-05-27) column 3, line 31 – column 4, line 40	1-4, 12, 36, 37
Y	-----	38, 39
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A	US 2002/094064 A1 (ZHOU OTTO Z 'US! ET AL) 18 July 2002 (2002-07-18) paragraphs '0042!, '0043!, '0046!	1-60

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Patent family members are listed in annex.

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